



United States
Department of
Agriculture

Economic
Research
Service

1301 New York Avenue NW
Washington, D.C.
20005-4788

MAR 29 1989

SUBJECT: FY 1988-89 Normalized Prices

TO: George Dunlop
Assistant Secretary
for Special Services

THROUGH: Ewen Wilson
Assistant Secretary
for Economics

We transmit herewith the "current normalized prices with support programs" for use by Federal agencies in the evaluation of water related development projects throughout FY 1988-89. Consistent with established practice, these prices are transmitted to you for distribution to Federal water resource agencies. The method used to calculate these prices is explained in the accompanying text. The method, as agreed to by the Natural Resource and Environmental Committee, is based on a comprehensive supply-demand analysis. This method of calculating "current normalized prices with support programs" was introduced in FY 1986 as reflected in my transmittal memo to Peter C. Myers dated November 12, 1985.

The current method utilizes information obtained from a structural econometric model of the agricultural sector and input from commodity specialists in the Economic Research Service. A comprehensive supply-demand analysis was used to minimize shortrun distortions in prices caused by abnormal weather and temporary changes in the foreign demand for agricultural products. Expert analysis by commodity specialists was used to derive consistent prices and indices for commodities not included in the structural model.

The State estimates are reported for "current normalized prices with support programs" but are available for the two other methods upon request to the Economic Research Service.

JOHN E. LEE, Jr.
Administrator

Attachment

cc: Bevan Brown, Tennessee Valley Authority (w/attachment)
Alan Dickerman, Bureau of Reclamation (w/attachment)
Dave Hottenstein, Corps of Engineers (w/attachment)
Ed Riekert, Soil Conservation Service (w/attachment)

CURRENT NORMALIZED PRICES

The orderly development and use of water and related land resources require that a consistent set of economic standards and criteria be used for the evaluation of agricultural benefits and costs. Agricultural price standards provide the basis for valuing the agricultural effects of alternative development and management plans for water and related land resources.

AUTHORITY

The authority of these standards is set forth in the Water Resources Planning Act (P.L. 89-90) and in the Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies. These Principles and Guidelines state in part:

"Section 1.4.10 Prices

- a. The prices of goods and services used for evaluation should reflect the real exchange values expected to prevail over the period of analysis. For this purpose, relative price relationships and the general level of prices for outputs and inputs prevailing during, or immediately preceding, the period of planning generally represent the real price relationships expected over the life of the plan, unless specific considerations indicate real exchange values are expected to change.
- b. The general level of prices for outputs and inputs prevailing during or immediately preceding the period of planning is to be used for the entire period of analysis. In the case of agricultural planning, normalized prices prepared by the Department of Agriculture should be used."

CONCEPTUAL BASIS FOR NORMALIZED AGRICULTURAL PRICES AND COSTS

Current normalized prices are to be used in all economic evaluations covered by the Principles and Guidelines, such as:

1. Evaluation of beneficial or adverse effects of alternative projects and programs under consideration.
2. Appraisals of economic impacts where such impacts are expressed in terms of value of production or income.

The project evaluation process should yield valid estimates of the aggregate benefits and costs during the life of the projects and programs under consideration. These estimates need to be based on relative price relationships that are representative of the period of analysis and that are not distorted by short-term abnormalities. Market prices and costs are generally influenced by highly variable factors such as weather and sudden demand changes. Thus, a procedure, such as the one described in the next section, is needed to correct for the effects of these factors.

COMPUTATION METHODS TO DERIVE CURRENT NORMALIZED PRICES FROM STRUCTURAL ECONOMIC INFORMATION

Current normalized prices were derived from information obtained from a structural econometric model^{1/} of the agricultural sector and from commodity specialists in the Economic Research Service. The model was used to minimize short run distortions in market prices caused by such factors as abnormal weather patterns and short-term fluctuations in the foreign demand for agricultural products. The model included the major crops and livestock enterprises of wheat, corn, sorghum, barley, oats, soybeans, cotton, rice, steers and heifers, feeder steers, cows for slaughter, calves, hogs, milk, broilers, turkeys, and eggs. Commodity specialists then reviewed and adjusted the model results for consistency with long-term relative price relationships.

The model is a dynamic simulation model solved for annual equilibrium conditions. A number of the model's equations depend on lagged variables. A major determinant of the current year's crop yields is the current weather pattern. To eliminate these weather effects upon yields, stocks, and current and future prices, the crop yields are adjusted to trend values. In addition, the solution is iterated several times to provide a better indication of long-term equilibrium prices under current supply and demand conditions.

Commodities Not Directly Included in Model

Normalized prices for commodities not included in the model were based on reduced-form partial equilibrium models, trend yields and structural-economic relationships. In general, the normalized prices for model crops served as starting values in deriving these normalized prices. In addition, other important variables such as loan rates, support levels, and acreages of competing crops planted were considered. For most commodities, partial equilibrium models were utilized which consisted of a set of equations to estimate production, total supply and demand, prices, and ending stocks based upon the values of the exogenous variables.

Normalized prices for livestock products were based on model results, adjusted for long-term relationships between livestock and feed crop prices. The adjustments were designed to provide livestock prices at an equilibrium where livestock breeding herds are neither contracting nor expanding. The prices for the livestock commodities not covered in the model were derived from historical price relationships among livestock commodities and feeds.

Indices of Prices Received and Paid by Farmers

Normalized indices of prices received and paid by farmers were derived from historical data series and the assumptions and results of the simulation model.

^{1/}A detailed description of the structural equations and variables of the model are included in Kenneth E. Gadson, J. Michael Price, and Larry E. Salathe, Food and Agricultural Policy Simulator (FAPSIM): Structural Equations and Variables Definitions, Staff Report, National Economics Division, Economic Research Service, U.S. Department of Agriculture, Washington, D.C., May 1982.

State Prices

The State normalized prices were obtained by multiplying the National normalized prices by the average ratio of the State price to the National commodity price for the period 1985-87. Because State prices would be distorted by the 1988 drought, the 1985-87 period was used rather than 1986-88.

Further Price Estimation

Special circumstances will require further price estimation, such as:

1. Pricing of commodities not included in the price table.

For example, forest product prices are not included in the tables. Information on current prices for forest products can be obtained from the last issue of The Demand and Price Situation for Forest Products, Forest Service, U.S. Department of Agriculture. To be consistent with the agricultural prices in this report, the stumpage prices should be adjusted to reflect value added from harvesting.

2. Determination of price differentials within States.

Current normalized prices for specific areas within a State may be derived by computing the average local area-to-State price ratio for the 1985-87 period and multiplying by the State normalized price.

3. Determination of price differentials to reflect product quality differences.

Published data do not provide, in most instances, a basis for deriving such price estimates. Procedures for estimating such price differentials will vary from one set of circumstances to another. Since a standard procedure cannot be specified, analysts confronted by such a problem must develop their own procedures. The basis used for estimating such price differentials should be fully documented in review reports.

4. Adjustments to reflect the impacts of project or program actions on market prices.

As specified in the Principles and Guidelines, whenever implementation of a plan is expected to influence price significantly, the use of a price about midway between those expected with and without implementation may be justified. Special consideration should be given to price adjustments where a program induced shift from a deficit to a surplus production area is expected, or vice versa.

These and other special price problems should be approached in such a manner as to achieve consistency with the published estimation of current normalized prices.

Normalized Prices: 1988-89

Commodity	Units	Market Clearing Price Estimates With Support Programs
<u>Program Commodities</u>		
Wheat, all	Bu.	2.60
Rye	Bu.	1.60
Rice	Cwt.	6.00
Corn	Bu.	1.80
Oats	Bu.	1.10
Barley	Bu.	1.50
Sorghum grain	Cwt.	3.04
Sugarbeets	Ton	36.20
Sugarcane for sugar	Ton	27.30
Cotton, lint (upland)	Lb.	.55
Tobacco	Lb.	1.60
Soybeans for beans	Bu.	4.80
Peanuts harvested for nuts	Lb.	.27
Milk	Cwt.	11.50
Wool	Lb.	.75
<u>Non-Program Commodities</u>		
Apples, fresh market	Lb.	.16
Oranges, all	Box	6.00
Grapefruit, all	Box	4.80
Sweetpotatoes	Cwt.	12.00
Steers and Heifers	Cwt.	56.00
Feeder steers - 8 markets	Cwt.	60.00
Cows for slaughter	Cwt.	39.00
Calves	Cwt.	56.00
Sheep	Cwt.	18.00
Lambs	Cwt.	59.00
Hogs	Cwt.	41.00
Broilers, commercial	Lb.	.30
Turkeys	Lb.	.42
Eggs	Doz.	.51
Dry beans	Cwt.	18.90
Cottonseed	Ton	75.00
Flaxseed	Bu.	4.85
Hay, all (baled)	Ton	65.00
Potatoes	Cwt.	4.60

Normalized Indexes: 1988-89

Indexes	Market Clearing Price Estimates With Support Programs
	1967 = 100
Prices received by farmers:	
All farm products	228
All crops	224
Livestock and livestock products	231
Prices paid by farmers:	
All commodities (production)	294
Feed	193
Livestock	223
Seed	414
Fertilizer	235
Agricultural chemicals	198
Fuels and energy	361
Farm and motor supplies	243
Autos and trucks	503
Tractors and self-propelled machinery	429
Other machinery	488
Building and fencing materials	317
Wage rates for hired farm labor	386
Construction costs composite	377
ENR construction cost	400
Wholesale lumber price	370

ES: CURRENT NORMALIZED PRICES FOR PRINCIPAL CITIES

03/01/89

STATE	COMMODITIES											
	: WHEAT :	: RYE 1/:	: RICE 1/:	: FOR 1/:	: OATS 1/:	: BARLEY 1/:	: SORGHUM :	: HAY, :	: DRY :	: SUGAR :	: SUGAR :	
	: ALL 1/ :	: :	: :	: :	: GRAIN 1/	: :	: GRAIN :	: ALL :	: BEANS :	: BEETS Z/:	: CANE :	
	: BUSHEL	BUSHEL	CWT.	BUSHEL	BUSHEL	BUSHEL	CWT.	TON	CWT.	TON	TON	
MAINE	: 0.00	0.00	0.00	0.00	0.83	0.00	0.00	72.35	0.00	0.00	0.00	
NEW HAMPSHIRE	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.53	0.00	0.00	0.00	
VERMONT	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.31	0.00	0.00	0.00	
MASSACHUSETTS	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.89	0.00	0.00	0.00	
RHODE ISLAND	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	103.99	0.00	0.00	0.00	
CONNECTICUT	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.90	0.00	0.00	0.00	
NEW YORK	: 2.41	2.40	0.00	2.01	1.11	0.00	0.00	73.75	20.28	0.00	0.00	
NEW JERSEY	: 2.65	2.85	0.00	1.95	1.40	1.18	0.00	95.59	0.00	0.00	0.00	
PENNSYLVANIA	: 2.75	2.54	0.00	2.04	1.21	1.36	0.00	76.05	0.00	0.00	0.00	
DELAWARE	: 2.54	1.80	0.00	2.06	0.00	1.26	0.00	98.16	0.00	0.00	0.00	
MARYLAND	: 2.55	1.80	0.00	2.07	1.18	1.29	0.00	92.80	0.00	0.00	0.00	
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MICHIGAN	: 2.48	1.71	0.00	1.72	1.13	1.57	0.00	51.49	20.16	34.22	0.00	
WISCONSIN	: 2.46	1.81	0.00	1.75	1.09	1.25	0.00	60.77	0.00	0.00	0.00	
MINNESOTA	: 2.61	1.59	0.00	1.67	1.10	1.32	0.00	56.90	19.02	38.18	0.00	
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OHIO	: 2.55	2.64	0.00	1.79	1.15	0.00	0.00	63.10	0.00	27.54	0.00	
INDIANA	: 2.46	1.90	0.00	1.81	1.24	0.00	2.79	53.18	0.00	0.00	0.00	
ILLINOIS	: 2.55	2.12	0.00	1.84	1.23	0.00	3.05	56.75	0.00	0.00	0.00	
IOWA	: 2.49	1.74	0.00	1.67	1.14	0.00	3.01	47.96	0.00	0.00	0.00	
MISSOURI	: 2.47	2.22	6.49	1.77	1.22	0.00	2.92	54.29	0.00	0.00	0.00	
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NORTH DAKOTA	: 2.72	1.94	0.00	1.72	0.98	1.25	0.00	42.41	16.35	38.77	0.00	
SOUTH DAKOTA	: 2.65	1.47	0.00	1.65	1.03	1.28	2.68	40.14	0.00	0.00	0.00	
NEBRASKA	: 2.40	1.59	0.00	1.78	1.07	1.24	2.97	40.61	17.51	27.38	0.00	
KANSAS	: 2.44	1.28	0.00	1.91	1.11	1.28	2.96	53.86	16.49	22.85	0.00	
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VIRGINIA	: 2.60	2.30	0.00	1.99	1.33	1.41	3.01	83.61	0.00	0.00	0.00	
WEST VIRGINIA	: 2.55	0.00	0.00	1.82	1.05	1.60	0.00	60.09	0.00	0.00	0.00	
NORTH CAROLINA	: 2.57	2.26	0.00	2.02	1.33	1.26	3.53	76.22	0.00	0.00	0.00	
KENTUCKY	: 2.54	2.06	0.00	1.96	1.51	1.34	3.10	68.98	0.00	0.00	0.00	
TENNESSEE	: 2.59	0.00	0.00	1.94	1.58	0.00	2.96	54.34	0.00	0.00	0.00	
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SOUTH CAROLINA	: 2.53	1.98	0.00	1.91	1.29	1.57	3.37	71.94	0.00	0.00	0.00	
GEORGIA	: 2.51	2.04	0.00	2.11	1.22	0.00	3.01	65.42	0.00	0.00	0.00	
FLORIDA	: 2.59	0.00	0.00	2.19	0.00	0.00	0.00	70.73	0.00	0.00	28.41	
ALABAMA	: 2.62	0.00	0.00	2.03	1.17	0.00	3.13	63.11	0.00	0.00	0.00	
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MISSISSIPPI	: 2.80	0.00	6.58	2.38	0.00	0.00	3.56	48.38	0.00	0.00	0.00	
ARKANSAS	: 2.60	0.00	6.25	2.01	1.43	0.00	3.00	51.61	0.00	0.00	0.00	
LOUISIANA	: 2.80	0.00	6.39	2.19	0.00	0.00	3.38	50.89	0.00	0.00	22.92	
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OKLAHOMA	: 2.50	2.13	0.00	2.20	1.37	1.60	3.30	60.92	0.00	0.00	0.00	
TEXAS	: 2.53	2.46	6.71	2.15	1.64	1.72	3.50	72.22	0.00	33.47	21.09	
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MONTANA	: 2.79	0.00	0.00	2.33	1.26	1.54	0.00	69.05	16.11	37.75	0.00	
IDAHO	: 2.59	0.00	0.00	2.15	1.22	1.79	0.00	60.57	17.29	39.41	0.00	
WYOMING	: 2.50	0.00	0.00	1.97	1.22	2.47	0.00	61.86	16.50	34.33	0.00	
COLORADO	: 2.45	1.43	0.00	1.91	1.24	1.89	3.13	60.97	16.62	26.63	0.00	
NEW MEXICO	: 2.48	0.00	0.00	2.16	0.00	1.82	3.62	82.77	0.00	37.80	0.00	
ARIZONA	: 3.22	0.00	0.00	2.43	0.00	2.17	4.68	76.26	0.00	37.80	0.00	
UTAH	: 2.60	0.00	0.00	2.38	1.38	1.70	0.00	65.21	18.32	37.80	0.00	
NEVADA	: 2.29	0.00	0.00	0.00	0.00	1.68	0.00	75.24	0.00	0.00	0.00	
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WASHINGTON	: 2.76	0.00	0.00	2.12	1.20	1.50	0.00	73.07	18.51	0.00	0.00	
OREGON	: 2.77	1.58	0.00	2.16	1.22	1.56	0.00	70.45	0.00	38.23	0.00	
CALIFORNIA	: 2.80	0.00	4.85	2.47	1.51	1.89	4.17	76.77	26.90	36.47	0.00	
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ALASKA	: 0.00	0.00	0.00	0.00	2.15	2.28	0.00	167.22	0.00	0.00	0.00	
HAWAII	: 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.98	
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1/ DOES NOT INCLUDE DEFICIENCY PAYMENTS.

2/ DOES NOT INCLUDE PAYMENTS UNDER THE SUGAR ACT.

-CONTINUED-

STATE	COMMODITIES										
	COTTON,	LINT	TOBACCO	SEED	PEANUTS	HARVESTED	FLAXSEED	COMMER-	ALL	FRUIT	SWEET-
	UPLAND 3/:			BEANS	FOR NUTS			CIAL 4/:		POTATOES	POTATOES
	POUND	POUND	TON	BUSHEL	POUND	BUSHEL	POUND	BOX	BOX	CWT.	CWT.
MAINE	0.000	0.000	0.00	0.00	0.000	0.00	0.192	0.00	0.00	3.81	0.00
NEW HAMPSHIRE	0.000	0.000	0.00	0.00	0.000	0.00	0.215	0.00	0.00	0.00	0.00
VERMONT	0.000	0.000	0.00	0.00	0.000	0.00	0.182	0.00	0.00	4.80	0.00
MASSACHUSETTS	0.000	8.349	0.00	0.00	0.000	0.00	0.217	0.00	0.00	4.68	0.00
RHODE ISLAND	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	4.56	0.00
CONNECTICUT	0.000	6.392	0.00	0.00	0.000	0.00	0.195	0.00	0.00	4.63	0.00
NEW YORK	0.000	0.000	0.00	0.00	0.000	0.00	0.150	0.00	0.00	5.48	0.00
NEW JERSEY	0.000	0.000	0.00	4.79	0.000	0.00	0.175	0.00	0.00	5.33	16.81
PENNSYLVANIA	0.000	0.781	0.00	4.78	0.000	0.00	0.150	0.00	0.00	5.48	0.00
DELAWARE	0.000	0.000	0.00	4.84	0.000	0.00	0.000	0.00	0.00	6.56	0.00
MARYLAND	0.000	1.310	0.00	4.84	0.000	0.00	0.138	0.00	0.00	8.15	9.54
MICHIGAN	0.000	0.000	0.00	4.71	0.000	0.00	0.117	0.00	0.00	5.05	0.00
WISCONSIN	0.000	0.993	0.00	4.60	0.000	0.00	0.203	0.00	0.00	3.93	0.00
MINNESOTA	0.000	0.000	0.00	4.62	0.000	4.74	0.000	0.00	0.00	4.15	0.00
OHIO	0.000	1.561	0.00	4.84	0.000	0.00	0.181	0.00	0.00	5.22	0.00
INDIANA	0.000	1.601	0.00	4.82	0.000	0.00	0.171	0.00	0.00	5.05	0.00
ILLINOIS	0.000	0.000	0.00	4.89	0.000	0.00	0.169	0.00	0.00	4.63	0.00
IOWA	0.000	0.000	0.00	4.66	0.000	0.00	0.000	0.00	0.00	4.41	0.00
MISSOURI	0.552	1.598	62.29	4.70	0.000	0.00	0.190	0.00	0.00	0.00	0.00
NORTH DAKOTA	0.000	0.000	0.00	4.57	0.000	4.81	0.000	0.00	0.00	3.75	0.00
SOUTH DAKOTA	0.000	0.000	0.00	4.56	0.000	5.04	0.000	0.00	0.00	3.18	0.00
NEBRASKA	0.000	0.000	0.00	4.60	0.000	0.00	0.000	0.00	0.00	5.53	0.00
KANSAS	0.466	0.000	80.25	4.68	0.000	0.00	0.167	0.00	0.00	0.00	0.00
VIRGINIA	0.565	1.599	67.23	4.92	0.235	0.00	0.143	0.00	0.00	7.04	6.49
WEST VIRGINIA	0.000	1.539	0.00	0.00	0.000	0.00	0.145	0.00	0.00	0.00	0.00
NORTH CAROLINA	0.561	1.619	67.23	4.85	0.282	0.00	0.099	0.00	0.00	5.40	9.24
KENTUCKY	0.000	1.597	0.00	5.03	0.000	0.00	0.159	0.00	0.00	0.00	0.00
TENNESSEE	0.530	1.566	64.83	4.90	0.000	0.00	0.000	0.00	0.00	8.47	11.22
SOUTH CAROLINA	0.555	1.595	65.46	4.91	0.231	0.00	0.146	0.00	0.00	0.00	11.57
GEORGIA	0.549	1.642	74.88	4.79	0.278	0.00	0.000	0.00	0.00	0.00	10.45
FLORIDA	0.531	1.649	54.29	5.02	0.248	0.00	0.000	6.42	4.67	8.53	0.00
ALABAMA	0.530	0.000	65.49	4.94	0.247	0.00	0.000	0.00	0.00	6.39	11.20
MISSISSIPPI	0.524	0.000	59.23	4.97	0.000	0.00	0.000	0.00	0.00	0.00	8.65
ARKANSAS	0.528	0.000	61.06	4.97	0.000	0.00	0.000	0.00	0.00	0.00	5.11
LOUISIANA	0.520	0.000	59.60	4.81	0.000	0.00	0.000	0.00	0.00	12.68	6.54
OKLAHOMA	0.464	0.000	79.19	4.56	0.288	0.00	0.000	0.00	0.00	0.00	0.00
TEXAS	0.500	0.000	74.88	4.48	0.271	0.00	0.000	9.39	6.84	8.29	14.16
MONTANA	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	8.05	0.00
IDAHO	0.000	0.000	0.00	0.00	0.000	0.00	0.257	0.00	0.00	3.95	0.00
WYOMING	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	5.17	0.00
COLORADO	0.000	0.000	0.00	0.00	0.000	0.00	0.128	0.00	0.00	3.45	0.00
NEW MEXICO	0.586	0.000	80.19	0.00	0.317	0.00	0.341	0.00	0.00	5.22	0.00
ARIZONA	0.580	0.000	80.96	0.00	0.000	0.00	0.000	6.03	4.20	8.05	0.00
UTAH	0.000	0.000	0.00	0.00	0.000	0.00	0.132	0.00	0.00	4.47	0.00
NEVADA	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	4.29	0.00
WASHINGTON	0.000	0.000	0.00	0.00	0.000	0.00	0.160	0.00	0.00	4.04	0.00
OREGON	0.000	0.000	0.00	0.00	0.000	0.00	0.122	0.00	0.00	4.03	0.00
CALIFORNIA	0.635	0.000	96.25	0.00	0.000	0.00	0.243	6.39	5.67	8.48	14.38
ALASKA	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	16.67	0.00
HAWAII	0.000	0.000	0.00	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.00

3/ PRICES BASED ON A 480 POUND NET WEIGHT BALE.

4/ BOTH FRESH AND PROCESSED SALE PRICES (EQUIVALENT PACKINGHOUSE-DOOR RETURNS FOR WASHINGTON AND OREGON,
EQUIVALENT FIRST DELIVERY POINT FOR CALIFORNIA AND "AS SOLD" FOR OTHER STATES).

5/ EQUIVALENT PACKINGHOUSE-DOOR RETURNS PER BOX FOR ALL USES.

-CONTINUED

STATE CURRENT NORMALIZED PRICES FOR PRINCIPAL COMMOD. S-CONTINUED

STATE	COMMODITIES									
	STEERS AND HEIFERS	CALVES	SHEEP	LAMBS	HOGS	MILK 6/CIAL BROILERS	COMMER- CIAL	TURKEYS	EGGS	WOOL
	CWT.	CWT.	CWT.	CWT.	CWT.	POUND	POUND	DOZ	POUND	
MAINE	40.93	42.55	32.82	86.14	38.83	12.39	0.271	0.000	0.661	0.700
NEW HAMPSHIRE	41.23	42.55	32.46	86.22	38.83	12.30	0.000	0.044	0.758	0.718
VERMONT	41.23	43.15	32.82	80.59	38.83	12.00	0.000	0.000	0.778	0.723
MASSACHUSETTS	40.93	43.73	32.82	91.85	38.83	12.33	0.000	0.754	0.806	0.676
RHODE ISLAND	40.93	43.72	0.00	0.00	38.83	12.30	0.000	0.000	0.684	0.000
CONNECTICUT	40.93	46.84	33.55	88.38	38.83	12.33	0.000	0.716	0.752	0.615
NEW YORK	41.34	57.27	17.82	61.44	39.84	11.56	0.312	0.403	0.494	0.652
NEW JERSEY	46.24	55.77	27.89	56.49	40.83	11.79	0.000	0.829	0.601	0.670
PENNSYLVANIA	51.59	58.86	34.71	60.64	42.47	11.85	0.293	0.463	0.495	0.649
DELAWARE	51.15	56.37	0.00	0.00	41.14	11.85	0.325	0.526	0.807	0.000
MARYLAND	51.15	56.37	14.60	56.86	41.14	11.88	0.325	0.491	0.565	0.715
MICHIGAN	50.84	49.68	14.30	58.01	40.60	11.53	0.301	0.452	0.394	0.515
WISCONSIN	49.56	80.24	13.12	60.23	40.30	11.16	0.282	0.396	0.417	0.504
MINNESOTA	51.82	51.79	16.40	60.00	41.63	10.91	0.286	0.403	0.405	0.511
OHIO	53.24	50.12	23.83	58.19	45.02	11.53	0.268	0.420	0.412	0.522
INDIANA	52.76	49.60	17.81	54.45	41.14	11.53	0.290	0.509	0.488	0.472
ILLINOIS	55.88	61.65	15.83	56.67	40.98	11.50	0.000	0.377	0.489	0.520
IOWA	56.27	56.06	18.40	59.64	41.03	11.08	0.308	0.397	0.409	0.504
MISSOURI	55.76	55.35	19.28	57.23	41.03	11.29	0.307	0.391	0.398	0.524
NORTH DAKOTA	55.74	58.08	14.44	57.21	38.91	10.40	0.000	0.403	0.406	0.654
SOUTH DAKOTA	56.41	61.00	18.25	59.76	40.56	10.75	0.000	0.394	0.327	0.701
NEBRASKA	57.29	60.99	19.19	59.34	41.31	11.44	0.347	0.389	0.359	0.576
KANSAS	57.64	58.32	18.06	58.28	40.10	11.97	0.000	0.443	0.423	0.595
VIRGINIA	50.40	49.91	13.71	58.81	40.78	11.97	0.301	0.437	0.575	0.688
WEST VIRGINIA	50.95	50.70	13.86	58.12	41.31	11.50	0.317	0.437	0.691	0.720
NORTH CAROLINA	44.78	50.73	19.47	55.72	40.92	12.92	0.283	0.431	0.651	0.638
KENTUCKY	49.88	50.93	13.09	59.10	41.70	11.53	0.283	0.000	0.461	0.512
TENNESSEE	50.03	50.77	17.74	56.87	39.75	11.98	0.274	0.000	0.503	0.663
SOUTH CAROLINA	48.95	51.74	0.00	0.00	40.09	13.67	0.286	0.428	0.470	0.000
GEORGIA	47.90	49.53	0.00	0.00	41.17	12.66	0.281	0.411	0.600	0.000
FLORIDA	52.64	55.15	0.00	0.00	38.31	14.54	0.284	0.000	0.434	0.000
ALABAMA	50.34	51.68	0.00	0.00	40.54	12.99	0.283	0.000	0.604	0.000
MISSISSIPPI	50.15	53.67	0.00	0.00	41.92	12.39	0.309	0.000	0.602	0.000
ARKANSAS	52.37	54.55	0.00	0.00	40.03	12.43	0.310	0.403	0.570	0.000
LOUISIANA	50.80	53.18	21.78	59.96	40.25	12.66	0.304	0.000	0.731	0.573
OKLAHOMA	55.88	55.93	15.52	57.19	40.69	12.01	0.301	0.400	0.623	0.591
TEXAS	56.48	56.13	20.65	60.16	39.79	12.39	0.313	0.431	0.579	0.915
MONTANA	55.54	56.80	14.97	58.29	36.37	11.76	0.000	0.000	0.456	0.827
IDAHO	54.38	54.58	15.08	57.44	39.17	10.84	0.000	0.000	0.429	0.776
WYOMING	57.20	60.57	17.72	58.16	40.66	11.20	0.000	0.000	0.555	0.840
COLORADO	58.15	60.44	18.30	58.88	42.24	12.56	0.000	0.470	0.536	0.744
NEW MEXICO	53.86	59.79	22.13	58.75	42.27	11.76	0.000	0.000	0.511	0.838
ARIZONA	55.90	55.12	15.08	58.47	43.87	11.76	0.000	0.000	0.447	0.560
UTAH	54.51	56.49	14.80	56.58	38.97	10.92	0.000	0.548	0.389	0.751
NEVADA	49.95	54.45	14.78	53.38	32.29	11.43	0.000	0.000	0.377	0.778
WASHINGTON	55.63	49.47	12.03	56.50	40.86	11.10	0.308	0.000	0.433	0.662
OREGON	51.70	53.28	14.00	56.43	42.11	11.40	0.305	0.391	0.449	0.674
CALIFORNIA	54.27	50.72	17.60	58.93	43.58	10.93	0.321	0.391	0.433	0.750
ALASKA	61.21	62.14	27.37	66.25	49.19	18.07	0.000	0.000	0.970	1.019
HAWAII	43.76	35.83	0.00	0.00	67.14	17.93	0.470	0.000	0.631	0.000

6/ SOLD TO PLANTS AND DEALERS.